



Patent No. 7,158,568 B2

PU020119

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Jepingsoon Park, Seo Weon Heo, Ivonete Markman, Saul Brian Gelfand  
Serial No. : 10/511,387  
Filed : 10/15/04  
For : EQUALIZER/FORWARD ERROR CORRECTION AUTOMATIC MODE  
SELECTOR  
Examiner : Emmanuel Bayard  
Art Unit : 2611  
Customer No. : 24498

REQUEST FOR CERTIFICATE OF CORRECTION

Chief Information Office  
U.S. Patent and Trademark Office  
Alexandria, VA 22313-1450

Sir:

It is respectfully requested that a Certificate of Correction be issued under the provisions of Rule 322 to correct errors in the above-identified patent. The corrections to be made are stated on the enclosed PTO/SB/44 form.

The submitted declaration misspelled the inventor's last name. However, the inventor correctly signed the declaration. This was the fault of the applicant. Accordingly, it is respectfully requested that a Certificate of Correction be issued as indicated on the enclosed PTO/SB/44 form.

Please charge any fees related to this request to Deposit Account 07-0832.

Respectfully submitted,

By:

J. J. Opalach  
Reg. No. 36,229  
(60) 734-6839

Enclosures (Form PTO/SB/44 & Filing Receipt)

Patent Operation  
Thomson Licensing LLC  
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February 12, 2007

**Certificate**  
**FEB 27 2007**  
**of Correction**

**FEB 28 2007**

Patent No. 7,158,568 B2

PU020119

Certificate of Mailing under 37 CFR 1.8

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FEB 28 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO : 7,158,568 B2

DATED : January 2, 2007

INVENTOR(S) : Jeongsoon Park, Seo Weon Heo, Ivonete Markman, Saul Brian Gelfand

It is certified that error appears in the above-identified patent and that said Letters Patent  
are hereby corrected as shown below:

On the first page of the patent, please correct the Inventor's name "Markman Ivonete" to --Ivonete Markman--.

MAILING ADDRESS OF SENDER: J. J. Opalach  
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PATENT NO. 7, 158, 568

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FEB 28 2007



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(12) **United States Patent**  
**Park et al.**

(10) **Patent No.:** **US 7,158,568 B2**  
**(45) Date of Patent:** **Jan. 2, 2007**

(54) **EQUALIZER/FORWARD ERROR  
CORRECTION AUTOMATIC MODE  
SELECTOR**

(75) Inventors: **Jeongsoon Park**, Lafayette, IN (US);  
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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 162 days.

(21) Appl. No.: **10/511,387**

(22) PCT Filed: **Apr. 10, 2003**

(86) PCT No.: **PCT/US03/11207**

§ 371 (c)(1).

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PCT Pub. Date: **Oct. 30, 2003**

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17, 2002.

(51) **Int. Cl.**  
**H03H 7/30** (2006.01)

(52) **U.S. Cl.** ..... 375/233

(58) **Field of Classification Search** ..... 375/229,  
375/231, 232, 233, 265, 350

See application file for complete search history.

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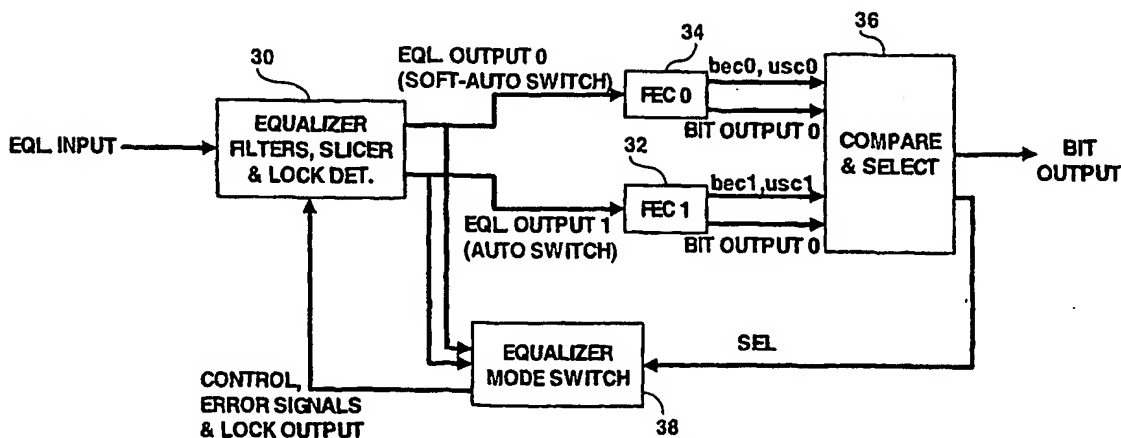
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Kurdyla; Joseph J. Opalach

(57) **ABSTRACT**

An apparatus for automatically selecting one of a standard decision directed mode and a soft dd mode in a decision feedback equalizer for receiving a data signal includes an equalizer utilizing forward error correction for providing first and second output signals corresponding to a DFE automatic switching mode and a soft automatic switching mode, respectively, and a comparator for comparing byte error rates of the first and second output signals for selecting as a superior mode that mode associated with a lower ByER and outputting the output signal with the lower ByER. A lock detector provides a lock signal derived from the DFE output signal with the lower ByER and a mode switch selectively places the DFE outputs in one of the dd modes or a blind mode, depending on the lock signal.

**25 Claims, 4 Drawing Sheets**



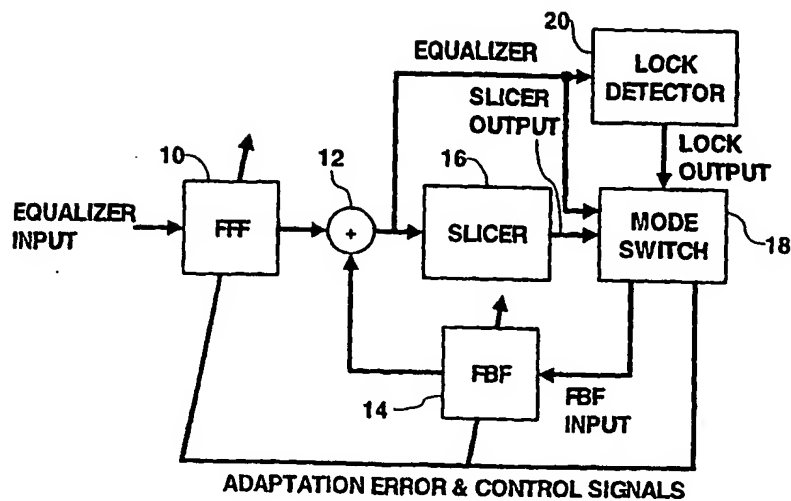


Fig. 1

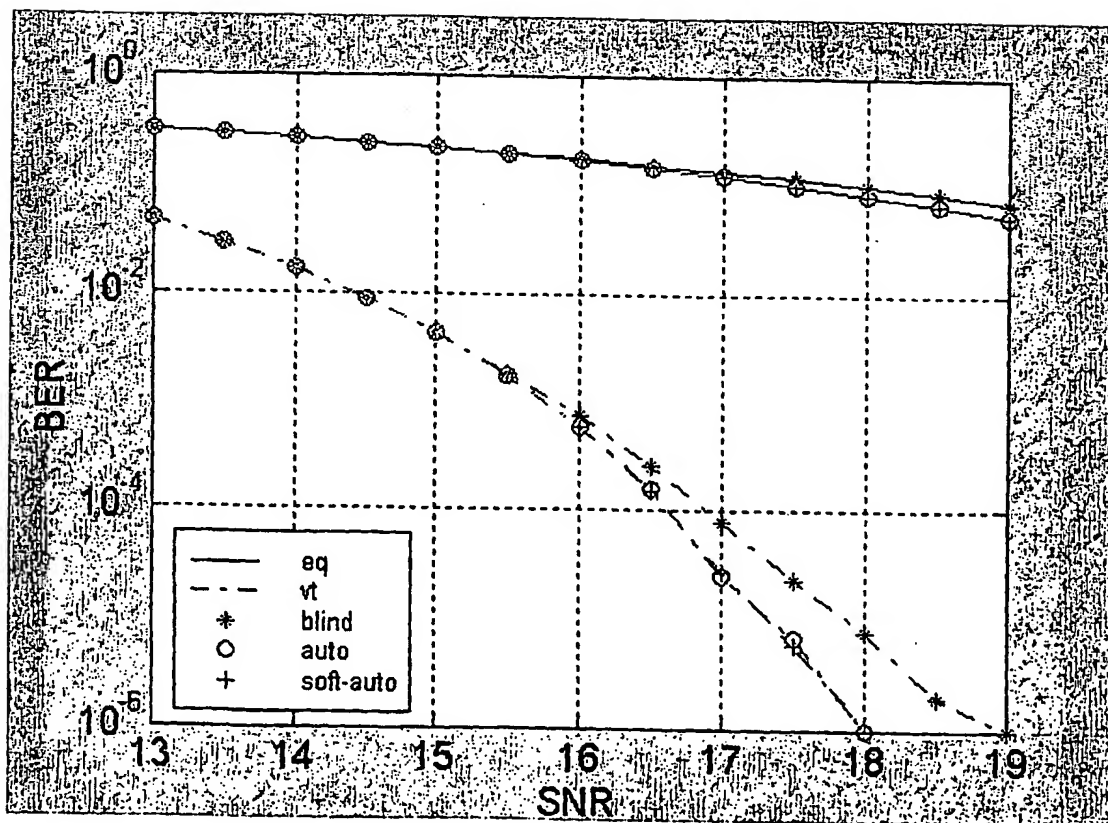


Fig. 2